

OPEN FILE REPORT

**SELECTED
STREAMFLOW
DATA FOR
ONTARIO
1981**

MINISTRY OF THE ENVIRONMENT
Water Resources Branch

MOE
WRB
SWS
OFR
AORL

TORONTO

ONTARIO

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1982

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INTRODUCTION

This bulletin contains streamflow data collected during 1981 by personnel of the Ministry of the Environment.

The basic data were collected and compiled by the Water Resources Assessment Units of the Ministry's Regional Offices at London, Hamilton, Don Mills and Sudbury.

This publication was prepared by personnel of the Hydrology and Monitoring Section of the Water Resources Branch, Ministry of the Environment, Toronto.

Enquiries concerning the data in this bulletin should be made to the following:

Hydrology and Monitoring Section
Water Resources Branch
135 St. Clair Avenue West
Toronto, Ontario
M4V 1P5

Technical Support Section
London Regional Office
985 Adelaide Street South
London, Ontario N6E 1V3

Technical Support Section
Toronto Regional Office
150 Ferrand Drive (Suite 700)
Don Mills, Ontario M3C 3C3

Technical Support Section
Hamilton Regional Office
119 King Street West 12th Floor
Hamilton, Ontario L8N 3Z9

Technical Support Section
Sudbury Regional Office
199 Larch Street
Sudbury, Ontario P3E 5P9

Other Data Sources

Data collected by the Regional Offices on a daily basis throughout the year in Southern Ontario are not published in this bulletin.

For convenience, these data are included in the Federal Government publication, "Surface Water Data - Ontario". That publication, which includes streamflow and water-level data for numerous rivers and lakes in the Province, is published annually by Water Survey of Canada. Enquiries should be made to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario K1A 0E7.

Two maps showing the locations of active and discontinued streamflow stations, respectively, in Ontario, at a scale of one inch equals 32 miles, are also available from the Canada Department of the Environment. These maps are part of the Hydrometric Map Supplement to the 1977 Surface Water Reference Index for Canada produced by the Inland Waters Directorate, Water Resources Branch, Department of the Environment. The Hydrometric Map Supplements are produced at approximately 5-year intervals.

Other Ontario Ministry of the Environment publications which are related to the subject of streamflow may be obtained from the Ontario Government Bookstore and these are referenced as follows:

Water Resources Report 11a, Northern Ontario Water Resources Studies, General Characteristics and Frequency Analyses of Streamflows, 1978.

Water Resources Map 3005-1, Low-Flow Characteristics of Streams in the Toronto-Centred Region, 1973.

Water Resources Map 3005-2, Low-Flow Characteristics of Streams in Southwestern Ontario, 1974.

Water Resources Map 3005-3, Low-Flow Characteristics of Streams in Southeastern Ontario, 1977.

Water Resources Map 3005-4, Low-Flow Characteristics of Streams in Northeastern Ontario, 1979.

Water Resources Bulletin, Atlas of Streamflow Stations in Ontario, 1980.

DATA QUALITY

Many of the flows were determined by direct measurements; others are values calculated from a reading of water elevation and an empirically determined stage-discharge relationship. For stations where a stage-discharge relationship has been developed, the following terms are used to describe the quality of the records.

<u>Excellent</u>	Records obtained at a site where an intensive discharge measurement program has produced a well-defined and stable stage-discharge relationship.
<u>Good:</u>	Records obtained from a site where an intensive discharge measurement program has produced a well-defined stage-discharge relationship which is not completely stable due to minor shifting of the stream bed or other channel properties which control water levels.
<u>Fair:</u>	Records obtained from a site where scarcity of discharge measurements has permitted only moderate definition of the stage-discharge relationship.
<u>Poor:</u>	Records obtained from a site where an unstable control, poor discharge measurement section or discharge measurements has resulted in a poorly defined stage-discharge relationship.

DEFINITION OF TERMS AND ABBREVIATIONS

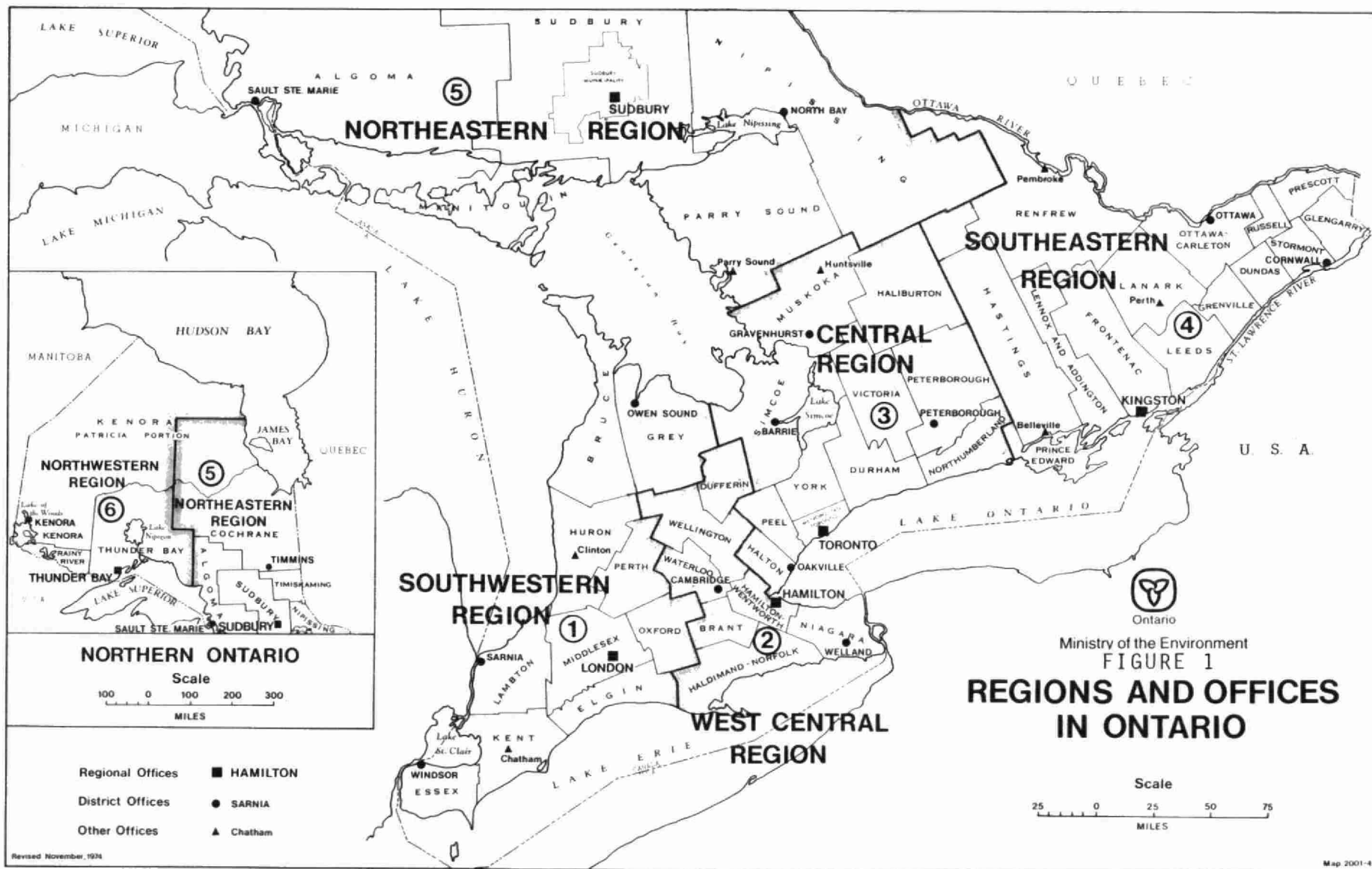
"Cubic metre per second" (m^3/s)	is the unit expressing the rate of streamflow discharge used in this bulletin.
"Cubic decametre" (dam^3)	is the volume of water required to cover an area of 1000 square metres to a depth of one metre. It is equal to 1000 cubic metres.
"WPCP"	Water Pollution Control Plant.
"No Flow" (N.F.)	This notation indicates a field observation of either no streamflow, or a flow of less than $0.001 \text{ m}^3/\text{s}$.
"<"	Less than

1 cubic metre equals 1000 litres.

1 cubic metre per second equals 60,000 litres per minute.

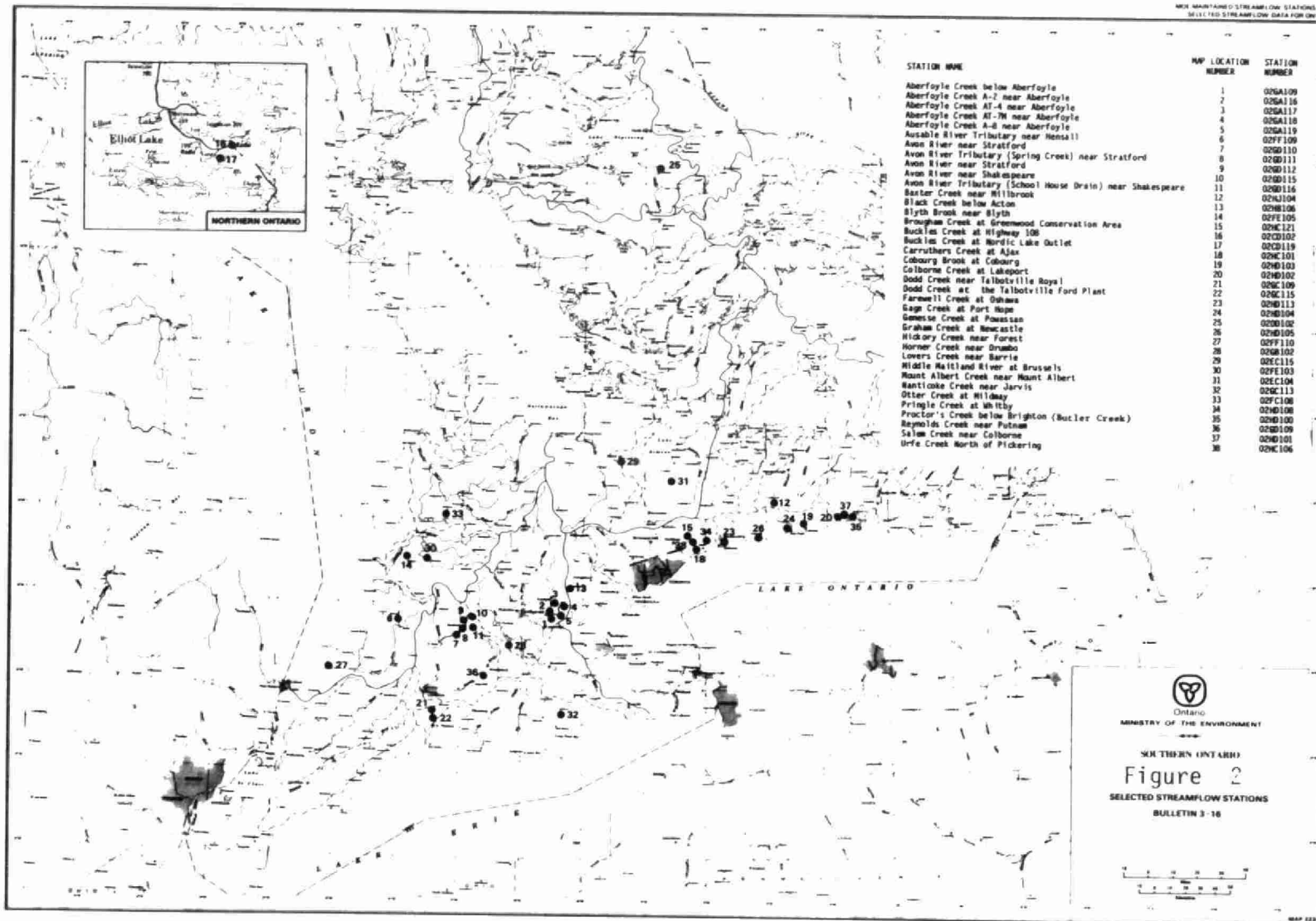
1 cubic metre per second for one day equals 86.4 cubic decametres.

1 cubic metre per second equals 35.3145 cubic feet per second.



Ministry of the Environment
FIGURE 1
REGIONS AND OFFICES
IN ONTARIO

Scale
 25 0 25 50 75
 MILES



ABERFOYLE CREEK BELOW ABERFOYLE

STATION NO. 02GA109

Location: At first bridge south of Regional Road 34 at Lot 26,
Conc. 2, about 2.4 kilometres west of Aberfoyle.

Gauge: On-stream recorder

Drainage Area: 41.2 square kilometres

Period of Record: January 1965 to May 1977
July 1981 to December 1981

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1981												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								0.271	0.388			
2								0.266	0.366			
3								0.270	0.407			
4								0.308	0.592	0.401		
5								0.377	0.607	0.359		
6								0.307	0.576	0.394		
7								0.241		0.521		
8								0.314		0.495		
9								0.348		0.453		
10									0.346	0.426		
11									0.374			
12									0.366			
13									0.330			
14									0.278			
15												
16												
17									0.321			
18								0.314	0.349			
19								0.272	0.340			
20								0.278				
21							0.191	0.280				
22							0.177	0.274				
23							0.173	0.273				
24							0.185	0.239				
25							0.225	0.206				
26							0.228	0.203	0.406			
27							0.184	0.217	0.387			
28							0.283	0.310	0.341			
29							0.389	0.362	0.331			
30							0.274	0.420	0.291			
31							0.256	0.473				

ABERFOYLE CREEK A-2 NEAR ABERFOYLE

STATION NO. 02GA116

Location: First Concession Road north-east of Aberfoyle.

Gauge: On-stream recorder

Drainage Area: 7.3 square kilometres

Period of Record: July 1981 to December 1981

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1981												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								0.010	0.032	0.035		
2								0.009	0.029	0.041		
3								0.010		0.032		
4								0.012		0.026		
5								0.014		0.025		
6								0.010		0.054		
7								0.010		0.059		
8								0.014		0.042		
9								0.016		0.031		
10								0.012	0.026	0.028		
11								0.016	0.024			
12								0.014	0.021			
13								0.011	0.018			
14								0.020	0.016			
15								0.063	0.015			
16								0.045	0.014			
17								0.025	0.015			
18							0.010	0.017	0.015			
19							0.014	0.014	0.014			
20							0.014	0.012	0.014			
21							0.014	0.009	0.016			
22							0.010	0.008	0.033			
23							0.009	0.008	0.024			
24							0.008	0.008	0.019			
25							0.008	0.008	0.018			
26							0.008	0.007	0.028			
27							0.008	0.007				
28							0.025	0.015				
29							0.033	0.021				
30							0.018	0.034				
31							0.012	0.044				

ABERFOYLE CREEK AT-4 NEAR ABERFOYLE

STATION NO. 02GA117

Location: County Road 34 upstream from mini lakes.Gauge: On-stream recorderDrainage Area: Not availablePeriod of Record: July 1981 to December 1981

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1981												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								0.014	0.020	0.031		
2								0.013	0.020	0.032		
3								0.013		0.024		
4								0.015		0.021		
5								0.016		0.019		
6								0.013	0.036	0.039		
7								0.012	0.031	0.040		
8								0.014	0.023	0.031		
9								0.017	0.020	0.024		
10								0.015	0.019	0.023		
11								0.017	0.019	0.021		
12								0.017	0.019			
13								0.016	0.018			
14									0.017			
15									0.016			
16									0.016			
17									0.016			
18								0.015	0.017			
19								0.014	0.017			
20								0.013	0.018			
21								0.012	0.018			
22							0.017	0.012	0.022			
23							0.015	0.012				
24							0.021	0.012				
25							0.020	0.012				
26							0.020	0.012				
27							0.019	0.011				
28							0.020	0.016				
29							0.020	0.020				
30							0.018	0.020				
31							0.015	0.021				

ABERFOYLE CREEK AT-7M NEAR ABERFOYLE

STATION NO. 02GA118

Location: At old Highway No. 6 on south branch of Aberfoyle Creek.Gauge: On-stream recorderDrainage Area: Not availablePeriod of Record: July 1981 to December 1981

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1981												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								0.022	0.023	0.012		
2								0.022	0.023	0.012		
3								0.022	0.024	0.011		
4								0.028	0.026	0.011		
5								0.023	0.026	0.011		
6								0.022	0.024	0.014		
7								0.021	0.024	0.014		
8								0.021	0.024	0.013		
9								0.021	0.024	0.014		
10								0.021	0.024	0.013		
11								0.022	0.024	0.017		
12								0.022	0.024	0.017		
13								0.020	0.025	0.017		
14								0.019	0.024			
15								0.021	0.024			
16								0.021	0.024			
17								0.020	0.022			
18								0.019				
19								0.019				
20								0.018				
21							0.025	0.016				
22							0.023	0.017				
23							0.022	0.017				
24							0.022	0.017	0.014			
25							0.023	0.017	0.014			
26							0.024	0.017	0.014			
27							0.024	0.017	0.013			
28							0.026	0.017	0.012			
29							0.024	0.017	0.012			
30							0.022	0.022	0.011			
31							0.022	0.022				

ABERFOYLE CREEK A-8 NEAR ABERFOYLE

STATION NO. 02GA119

Location: At old Highway No. 6 on the north branch of Aberfoyle Creek.

Gauge: On-stream recorder

Drainage Area: Not available

Period of Record: July 1981 to December 1981

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1981											
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
1								0.050	0.087	0.085	
2								0.047	0.084	0.095	
3								0.048	0.091	0.087	
4								0.053	0.263	0.082	
5								0.056	0.210	0.081	
6								0.050	0.126	0.114	
7								0.048	0.113	0.130	
8								0.058	0.097	0.112	
9								0.061	0.089	0.099	
10								0.054	0.080	0.093	
11								0.061	0.076	0.088	
12								0.062		0.86	
13								0.054		0.082	
14											
15											
16											
17											
18							0.047	0.057			
19							0.054	0.057			
20							0.056	0.057			
21							0.055	0.052			
22							0.050	0.051			
23							0.048	0.050			
24							0.046	0.051	0.069		
25							0.046	0.050	0.072		
26							0.047	0.050	0.080		
27							0.046	0.051	0.077		
28							0.076	0.067	0.072		
29							0.088	0.075	0.069		
30							0.063	0.091	0.067		
31							0.054	0.106			

AUSABLE RIVER TRIBUTARY NEAR HENSALL

STATION NO. 02FF105

Location: At the bridge on Highway 4 about 1.8 kilometres south of the Village of Hensall.

Gauge: None

Drainage Area: 15.8 square kilometres

Period of Record: June 1975 to December 1981

1981							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 21	.114	Jul 2	.052	Nov 3	.160
		Jun 1	.082	Jul 9	.036		
		Jun 11	.050	Jul 14	.030		
		Jun 18	.038	Aug 6	.038		
		Jun 26	.094	Aug 19	.044		
				Aug 25	.011		

AVON RIVER NEAR STRATFORD

STATION NO. 02GD110

Location: At the bridge on North Easthope Concession Road No. 35,
1.5 kilometres north of Highway No. 7.

Gauge: Staff

Drainage Area: 37.6 square kilometres

Period of Record: May 1981 to December 1981

1981							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 8	.184	Jul 1	.116	Oct 5	.180
		May 13	.216	Jul 10	.089	Oct 6	.435
		May 20	.158	Jul 30	.082	Oct 8	.323
		May 28	.162	Aug 5	.107	Oct 9	.202
		Jun 2	.096	Aug 12	.093	Oct 15	.114
		Jun 12	.099	Aug 24	.096	Oct 23	1.24
		Jun 17	.101			Oct 29	.472

AVON RIVER TRIBUTARY (SPRING CREEK) NEAR STRATFORD

STATION NO. 02GD111

Location: At the bridge on Perth County Road No. 31, 4 kilometres east of Highway No. 19.

Gauge: None

Drainage Area: 11.1 square kilometres

Period of Record: May 1981 to December 1981

 1981

Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 20	.038	Jul 1	.018		
		May 28	.036	Jul 10	.009		
		Jun 2	.022	Jul 30	.014		
		Jun 12	.016	Aug 5	.009		
		Jun 17	.016	Aug 12	.013		
				Aug 24	.008		

AVON RIVER NEAR STRATFORD

STATION NO. 02GD112

Location: At the bridge on Lorne Avenue, Stratford, 2.5 kilometres west of Highway No. 7.

Gauge: Staff

Drainage Area: 114 square kilometres

Period of Record: May 1981 to December 1981

 1981

Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 20	.749	Jul 1	.525	Oct 9	1.54
		May 28	.669	Jul 10	.376	Oct 5	.753
		Jun 2	.486	Jul 30	.373	Oct 15	.543
		Jun 12	.375	Aug 5	.506	Oct 29	2.22
		Jun 17	.428	Aug 12	.472	Oct 30	2.15
				Aug 24	.428		
				Sept 16	.560		

AVON RIVER NEAR SHAKESPEARE

STATION NO. 02GD115

Location: At the bridge on Perth County Road No. 14, 1.6 kilometres north of Shakespeare.

Gauge: Staff

Drainage Area: 5.2 square kilometres

Period of Record: May 1981 to December 1981

1981							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 7	.020	Jul 1	.026	Oct 5	.019
		May 13	.037	Jul 10	.008	Oct 6	.045
		May 20	.011	Jul 30	.009	Oct 8	.036
		May 28	.032	Aug 5	.013	Oct 15	.013
		Jun 2	.024	Aug 12	.013	Oct 23	.149
		Jun 12	.012	Aug 24	.012	Oct 28	.183
		Jun 17	.014				

AVON RIVER TRIBUTARY (SCHOOL HOUSE DRAIN)
NEAR SHAKESPEARE

STATION NO. 02GD116

Location: At the bridge on North Easthope Concession Road 2-3, 3 kilometres west of County Road No. 14.

Gauge: Staff

Drainage Area: 4.9 square kilometres

Period of Record: May 1981 to December 1981

1981

Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 8	.016	Jul 1	.010	Oct 5	.037
		May 13	.035	Jul 10	.005	Oct 8	.052
		May 20	.022	Jul 30	.010	Oct 9	.064
		May 28	.023	Aug 5	.014	Oct 23	.186
		Jun 2	.011	Aug 12	.005	Oct 28	.196
		Jun 12	.006	Aug 24	.005		
		Jun 17	.012				

BAXTER CREEK NEAR MILLBROOK

STATION NO. 02HJ104

Location: Upstream of the Township road bridge at Lot 10, Concession 4, Township of Cavan, about 1.6 kilometres southeast of the Town of Millbrook.

Gauge: On-stream recorder

Drainage Area: 30.6 square kilometres

Period of Record: October 1977 to December 1981

Remarks: Records good. Temporary on-stream recorder installed February 26 to December 8, 1981.

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1981												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1			0.676	0.596	0.411	0.417	0.480	0.430	0.408	0.552	0.594	0.552
2			0.631	0.549	0.400	0.395	0.398	0.435		0.577	0.556	0.614
3			0.569	0.523	0.448	0.419	0.386	0.463		0.572	0.754	0.589
4			0.579	0.557	0.411	0.426	0.380	0.512		0.563	0.524	0.557
5			0.599	0.577	0.380	0.403	0.389	0.718		0.563	0.473	0.548
6			0.596	0.503	0.394	0.394	0.372	0.471		0.641	0.555	0.705
7			0.588	0.480	0.386	0.396		0.455		0.687	0.510	0.891
8			0.659	0.476	0.390	0.406		0.487		0.651	0.478	1.23
9			0.627	0.510	0.394	0.412		0.628	0.426	0.642	0.464	
10			0.615	0.467	0.478	0.531		0.540	0.414	0.645	0.455	
11			0.606	0.546	1.12	0.467	0.361	0.596	0.416	0.646	0.446	
12			0.591	0.501	0.758	0.439	0.364	0.497	0.414	0.647	0.434	
13			0.590	0.451	0.591	0.433	0.369	0.470	0.406	0.647	0.431	
14			0.560	0.708	0.497	0.462	0.372	0.448	0.401	0.654	0.436	
15			0.591	0.504	0.499	0.441	0.389	0.816	0.408	0.670	0.434	
16			0.569		0.471	0.561	0.387	0.526	0.409	0.681	0.967	
17			0.559		0.499	0.579	0.392	0.406	0.422	0.686	0.949	
18			0.573		0.422	0.439	0.463	0.401	0.426	0.967	0.600	
19			0.578		0.406	0.433	0.452	0.387	0.427	0.721	0.502	
20			0.573		0.401	0.445	0.565	0.364	0.427	0.652	0.825	
21			0.573		0.398	0.461	0.472	0.359	0.430	0.616	0.709	
22			0.586		0.394	0.878	0.427	0.359	0.539	0.914	0.546	
23			0.609		0.385	0.548	0.436	0.359	0.489	1.14	0.503	
24			0.618		0.420	0.454	0.427	0.379	0.457	0.985	0.492	
25			0.612		0.424	0.425	0.421	0.359	0.466	0.840	0.490	
26		0.787	0.584		0.442	0.403	0.443	0.359	0.509	0.958	0.498	
27		0.641	0.608		0.513	0.389	0.428	0.379	0.545	1.38	0.843	
28		0.667	0.575		0.931	0.383	0.940	0.422	0.528	1.09	0.607	
29			0.596		0.544	0.384	0.637	0.429	0.526	0.751	0.559	
30			0.940	0.433	0.547	0.390	0.475	0.394	0.528	0.682	0.537	
31			0.722		0.442		0.435	0.512		0.631		

BLACK CREEK BELOW ACTON

STATION NO. 02HB106

Location: At the bridge on Concession 4, Township of Esquesing, about 2.4 kilometres southeast of the Town of Acton.

Gauge: On-stream recorder.

Drainage Area: 25.9 square kilometres.

Period of Record: April 1966 to December 1981.

Remarks: Temporary on-stream recorder installed February 27 to December 31, 1981. Discharge affected by regulation.

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1981												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1			0.490	0.278	0.163	0.129	0.103	0.091	0.191	0.227	0.255	0.266
2			0.439	0.289	0.150	0.127	0.138	0.074	0.220	0.211	0.237	0.316
3			0.367	0.300	0.157	0.158	0.100	0.101	0.526	0.192	0.216	0.322
4			0.318	0.422	0.156	0.152	0.095	0.141	1.25	0.188	0.209	0.299
5			0.284	0.338	0.152	0.138	0.312	0.163	1.16	0.180	0.199	0.276
6			0.261	0.282	0.142	0.119	0.218	0.130	0.644	0.356	0.213	0.269
7			0.250	0.240	0.126	0.108	0.185	0.109	0.187	0.334	0.359	0.266
8			0.244	0.216	0.119	0.116	0.143	0.098	0.201	0.224	0.433	0.260
9			0.243	0.211	0.123	0.217	0.120	0.085	0.172	0.194	0.383	0.247
10			0.238	0.190	0.140	0.320	0.102	0.102	0.168	0.170	0.301	0.235
11			0.236	0.173	0.277	0.211	0.080	0.170	0.156	0.162	0.244	0.226
12			0.236	0.179	0.262	0.118	0.067	0.132	0.144	0.161	0.210	0.214
13			0.232	0.194	0.229	0.111	0.064	0.109	0.173	0.160	0.197	0.203
14			0.209	0.430	0.202	0.121	0.066	0.107	0.248	0.147	0.187	0.205
15			0.213	0.352	0.221	0.110	0.065	0.219	0.107	0.169	0.182	0.207
16			0.209	0.261	0.222	0.123	0.060	0.176	0.118	0.158	0.349	0.206
17			0.187	0.162	0.200	0.134	0.063	0.150	0.119	0.153	0.404	0.206
18			0.137	0.160	0.179	0.115	0.078	0.130	0.125	0.292	0.342	0.193
19			0.132	0.145	0.168	0.114	0.101	0.115	0.119	0.285	0.281	0.172
20			0.125	0.162	0.150	0.121	0.104	0.103	0.112	0.229	0.394	0.169
21			0.124	0.165	0.138	0.135	0.098	0.096	0.134	0.221	0.443	0.168
22			0.127	0.156	0.132	0.230	0.078	0.154	0.159	0.333	0.371	0.174
23			0.182	0.214	0.131	0.162	0.073	0.144	0.114	0.461	0.310	0.180
24			0.267	0.310	0.126	0.121	0.079	0.126	0.125	0.400	0.246	0.187
25			0.232	0.256	0.145	0.106	0.096	0.118	0.122	0.322	0.216	0.188
26			0.202	0.217	0.146	0.110	0.071	0.109	0.154	0.305	0.202	0.186
27		0.446	0.286	0.194	0.171	0.099	0.078	0.110	0.150	0.437	0.274	0.186
28		0.504	0.258	0.170	0.210	0.082	0.244	0.228	0.146	0.709	0.263	0.190
29			0.237	0.181	0.179	0.083	0.151	0.194	0.136	0.502	0.243	0.192
30			0.277	0.170	0.163	0.086	0.129	0.222	0.129	0.343	0.227	0.189
31			0.354		0.143		0.115	0.235		0.279		0.187

BLYTH BROOK NEAR BLYTH

STATION NO. 02FE105

Location: At the bridge on Side Road 39-40, Township of East Wawanosh, about 2.4 kilometres northwest of the Village of Blyth.

Gauge: Staff

Drainage Area: 50.5 square kilometres

Period of Record: July 1975 to December, 1981

1981							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 21	.319	Jul 2	.119		
		Jun 1	.294	Jul 9	.103		
		Jun 11	.207	Jul 14	.095		
		Jun 18	.138	Aug 6	.129		
		Jun 26	.173	Aug 19	.104		
				Aug 25	.105		

BROUGHAM CREEK AT GREENWOOD CONSERVATION AREA

STATION NO. 02HC121

Location: At the bridge on Con. 5, Township of Pickering, just upstream of the confluence with Duffins Creek in the Greenwood Conservation Area.

Gauge: Measuring Point

Drainage Area: 12.7 square kilometres

Period of Record: April 1980 to December 1981

1981							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
Feb 25	.396	May 13	.134	Jul 30	.066		
Mar 10	.150	Jun 11	.068	Aug 5	.254		
		Jun 16	.064	Sep 17	.091		

BUCKLES CREEK AT HIGHWAY 108

Station No. 02CD102

Location: At the Culvert on Highway 108, about 2.5 miles south of Elliot Lake Township.

Gauge: Staff

Drainage Area: 33.1 square kilometres

Period of Record: September 1966 to December 1973
May 1981 to December 1981

1981							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 27	.089			Oct 20	.252

BUCKLES CREEK AT NORDIC LAKE OUTLET

STATION NO. 02CD119

Location: At Nordic Lake outlet.

Gauge: None

Drainage Area: 39.9 square kilometres

Period of Record: August 1981 to November 1981

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1981												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1									.074	.058		
2									.074	.058		
3									.074	.058	.358	
4									.054	.058	.358	
5									.070	.058	.358	
6									.070	.087		
7									.070	.087		
8									.054	.087	.358	
9									.070	.087	.358	
10									.061	.087	.358	
11									.074	.087		
12									.074	.087		
13									.074	.087		
14									.074	.087		
15									.074	.087		
16									.074			
17									.074			
18									.074			
19								.054	.074			
20								.054	.074			
21								.054	.074			
22								.054	.074			
23								.054	.074			
24								.054	.074			
25								.047	.074			
26								.047	.074			
27								.047	.074			
28								.047	.074	.522		
29								.054	.074			
30								.070	.066			
31								.074				

CARRUTHERS CREEK AT AJAX

STATION NO. 02HC100

Location: At the bridge on Baseline Road, about .8 kilometres east of the Town of Ajax.

Gauge: Staff

Drainage Area: 31.1 square kilometres

Period of Record: April 1967 to December 1974, 1978
May 1980 to December 1981

1981

Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 14	.278	Jul 9	NF	Oct 22	.459
		Jun 11	.046	Aug 12	.108	Nov 20	.716
		Jun 24	.073	Sep 1	.045		

COBourg BROOK AT COBourg

STATION NO. 02HD103

Location: At the bridge adjacent to the WPCP in the Town of Cobourg .

Gauge: Wire weight

Drainage Area: 126 square kilometres

Period of Record: July 1966 to December 1981

Remarks: Records good

1981

Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 15	1.48	Jul 10	.583	Oct 1	.719
		Jun 11	.920	Aug 11	1.06	Oct 23	2.92
		Jun 25	.796	Sep 1	1.00	Nov 19	1.89

COLBORNE CREEK AT LAKEPORT

STATION NO. 02HD102

Location: At the bridge in the Hamlet of Lakeport on the road leading to the Village of Colborne.

Gauge: Staff

Drainage Area: 44.0 square kilometres

Period of Record: July 1966 to December 1981

Remarks: Records good

1981

<u>Jan. to March</u>		<u>April to June</u>		<u>July to Sept.</u>		<u>Oct. to Dec.</u>	
<u>Date</u>	<u>m³/s</u>	<u>Date</u>	<u>m³/s</u>	<u>Date</u>	<u>m³/s</u>	<u>Date</u>	<u>m³/s</u>
		May 5	.476	Jul 10	.161	Oct 2	.331
		Jun 12	.264	Aug 11	.521	Oct 23	1.04
		Jun 24	.306	Sep 2	1.13	Nov 19	.654

DODD CREEK NEAR TALBOTVILLE ROYAL

STATION NO. 02GC109

Location: At the bridge on the side road leading west off Hwy.4,
about 2.4 kilometres northwest of the Hamlet of
Talbotville Royal.

Gauge: Staff

Drainage Area: 22.8 square kilometres

Period of Record: May 1972 to December 1974
June 1978 to December 1981

Remarks: Records fair

1981							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Jun 5	.027	Jul 7	.016	Nov 2	.063
		Jun 9	.042	Jul 13	.009		
		Jun 16	.054	Jul 30	.019		
		Jun 29	.018	Aug 4	.259		

DODD CREEK AT THE TALBOTVILLE FORD PLANT

STATION NO. 02GC115

Location: About 300 metres upstream of the bridge on Hwy. 4,
about 0.4 kilometres north of the Ford Motor Company
Talbotville Plant

Gauge: On stream recorder

Drainage Area: 19.2 square kilometres

Period of Record: June to December 1978
May 1980 to December 1981

1981							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 27	.044	Jul 7	.019	Nov 2	.088
		Jun 5	.0034	Jul 13	.020		
		Jun 9	.021	Jul 30	.022		
		Jun 16	.057	Aug 4	.072		
		Jun 29	.027				

FAREWELL CREEK AT OSHAWA

STATION NO. 02HD113

Location: At the bridge on Bloor Street East immediately above Hwy. 401 in the City of Oshawa

Gauge: Measuring Point

Drainage Area: 55.7 square kilometres

Period of Record: May 1980 to December 1981

1981							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 14	.456	Jul 9	.135	Oct 1	.196
		Jun 11	.160	Aug 12	.211	Oct 22	.821
				Sep 2	.124	Nov 20	1.32

GAGE CREEK AT PORT HOPE

STATION NO. 02HD104

Location: At the bridge on Hwy. 2 about 1.6 kilometres east of the Town of Port Hope

Gauge: Staff

Drainage Area: 43.2 square kilometres

Period of Record: August 1966 to December 1981

Remarks: Records good

 1981

<u>Jan. to March</u>		<u>April to June</u>		<u>July to Sept.</u>		<u>Oct. to Dec.</u>	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 14	.396	Jul 10	.079	Oct 1	.166
		Jun 11	.189	Aug 12	.151	Oct 23	1.47
		Jun 25	.160	Sep 1	.196	Nov 20	1.18

GENESSEE CREEK AT POWASSAN

STATION NO. 02DD102

Location: At the culvert on Mill Street in the Town of Powassan.Gauge: Measuring pointDrainage Area: 67.6 square kilometresPeriod of Record: April 1970 to December 1972,
June 1981 to December 1981Remarks: Records fair

1981

<u>Jan. to March</u>		<u>April to June</u>		<u>July to Sept.</u>		<u>Oct. to Dec.</u>	
<u>Date</u>	<u>m³/s</u>	<u>Date</u>	<u>m³/s</u>	<u>Date</u>	<u>m³/s</u>	<u>Date</u>	<u>m³/s</u>
		Jun 4	1.02	Jul 15	.217		
		Jun 23	2.23	Aug 12	.311		
		Jun 29	.826				

GRAHAM CREEK AT NEWCASTLE

STATION NO. 02HD105

Location: At the concrete bridge on Mill Street about 0.8 kilometres south of Hwy. 401 in the Village of Newcastle

Gauge: Staff

Drainage Area: 86.2 square kilometres

Period of Record: November 1965 to December 1981

Remarks: Records good

1981

Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 14	1.12	Aug 12	.371	Oct 1	.198
		Jun 12	.222	Sep 1	.200	Oct 22	1.01

HICKORY CREEK NEAR FOREST

STATION NO. 02FF110

Location: At the bridge on Plympton Township Road 14-15, 3 kilometres west of Forest.

Gauge: None

Drainage Area: 53.9 square kilometres

Period of Record: August 1981 to December 1981

1981							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
				Aug 11	.101	Nov 5	.189
				Aug 21	.024		
				Aug 26	.004		

HORNER CREEK NEAR DRUMBO

STATION NO. 02GB102

Location: At the bridge on Oxford County Road No. 29, 1.3 kilometres west of Highway 401.

Gauge: None

Drainage Area: 113 square kilometres

Period of Record: January 1981 to December 1981

1981							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Jun 5	.323	Jul 7	.214	Nov 2	.578
		Jun 9	.255	Jul 13	.161		
		Jun 16	.277	Jul 30	.288		
		Jun 29	.235	Aug 4	.198		
				Aug 20	.159		
				Aug 26	.062		

LOVERS CREEK NEAR BARRIE

STATION NO. 02EC115

Location: At the culvert on Tollendale Road in the Community of Minet Point

Gauge: Measuring Point

Drainage Area: 61.1 square kilometres

Period of Record: May 1968 to December 1981

Remarks: Data prior to 1976 appear under the name "Painswick Creek" in the Summer Gauging Site Data section of previous bulletins in this series.

1981

Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 28	.328	Jul 23	.148		
		Jun 25	.245	Aug 13	.191		

MIDDLE MAITLAND RIVER AT BRUSSELS

STATION NO. 02FE103

Location: At the bridge on Huron County Road 12 in the Village of Brussels

Gauge: None

Drainage Area: 570 square kilometres

Period of Record: June 1975 to December 1981

1981							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 21	2.88	Jul 2	.440		
		Jun 1	.660	Jul 9	.286		
		Jun 11	.696	Jul 14	.213		
		Jun 18	.629	Aug 6	.269		
		Jun 26	.654	Aug 19	.334		
				Aug 25	.257		

MOUNT ALBERT CREEK NEAR MOUNT ALBERT

STATION NO. 02EC104

Location: At the bridge on Queensville side road about 4.0 kilometres north of the Community of Mount Albert.

Gauge: On-stream recorder

Drainage Basin: 63.0 square kilometres

Period of Record: July 1970 to December 1973 - Periodic Data
April 1976 to November 1981 - Seasonal Recorder

Remarks: Temporary on-stream recorder installed February 26 to December 8, 1981.

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1981												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1			0.813	0.891	0.514	0.371	0.327	0.380	0.531	0.508	0.650	0.617
2			0.743	0.780	0.510	0.345	0.325	0.363	0.489	0.568	0.611	0.673
3			0.646	0.689	0.497	0.345	0.310	0.361	0.475	0.578	0.591	0.684
4			0.666	0.678	0.490	0.386	0.423	0.527	0.805	0.556	0.579	0.631
5			0.641	0.687	0.481	0.357	1.40	1.74	1.78	0.544	0.573	0.594
6			0.639	0.634	0.533	0.330	1.10	1.15	1.67	0.745	0.593	0.545
7			0.615	0.589	0.496	0.305	0.619	0.612	1.03	0.983	0.634	0.528
8			0.628	0.568	0.472	0.297	0.444	0.572	0.793	0.831	0.629	0.546
9			0.646	0.575	0.464	0.292	0.398	0.722	0.698	0.690	0.606	
10			0.645	0.576	0.547	0.315	0.371	0.552	0.589	0.626	0.562	
11			0.639	0.579	1.36	0.391	0.344	0.589	0.540	0.581	0.567	
12			0.614	0.589	2.67	0.337	0.337	0.575	0.509	0.558	0.568	
13			0.613	0.570	1.40	0.329	0.325	0.474	0.487	0.542	0.551	
14			0.576	0.685	0.822	0.327	0.305	0.431	0.462	0.532	0.544	
15			0.574	0.720	0.725	0.323	0.303	0.664	0.451	0.550	0.545	
16			0.570	0.647	0.691	0.319	0.300	0.995	0.445	0.574	0.612	
17			0.524	0.675	0.613	0.365	0.295	0.612	0.442	0.549	0.900	
18			0.526	0.738	0.551	0.322	0.322	0.488	0.459	0.643	0.858	
19			0.483	0.662	0.506	0.297	0.356	0.449	0.458	0.753	0.751	
20			0.471	0.622	0.477	0.295	0.605	0.406	0.465	0.731	1.02	
21			0.474	0.575	0.446	0.313	0.469	0.391	0.464	0.648	1.47	
22			0.493	0.562	0.432	0.534	0.399	0.386	0.521	0.687	1.14	
23			0.515	0.566	0.408	0.773	0.363	0.377	0.500	0.869	0.821	
24			0.528	0.641	0.392	0.483	0.342	0.410	0.477	0.955	0.707	
25			0.540	0.647	0.397	0.407	0.344	0.403	0.457	0.817	0.617	
26		1.13	0.550	0.598	0.405	0.365	0.347	0.388	0.480	0.799	0.597	
27		0.873	0.578	0.573	0.388	0.338	0.344	0.390	0.520	0.918	0.973	
28		0.831	0.579	0.552	0.495	0.320	0.442	0.452	0.500	1.43	0.956	
29			0.592	0.558	0.511	0.310	0.755	0.577	0.493	1.03	0.776	
30			0.831	0.548	0.447	0.312	0.552	0.555	0.491	0.789	0.670	
31			1.16		0.407		0.425	0.622		0.699		

NANTICOKE CREEK NEAR JARVIS

STATION NO. 02GC113

Location: At the bridge on Haldimand-Norfolk Regional Road 69,
about 1.6 kilometres west of the Community of Jarvis.

Gauge: On-stream recorder

Drainage Basin: 150 square kilometres

Period of Record: May 1977 to July 1977
July 1979 to December 1981

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1981												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1							0.437	0.368	0.249	0.788	2.27	1.14
2							0.397	0.344	0.250	1.13	1.99	1.50
3							0.390	0.332	0.270	1.14	1.70	1.64
4							0.374	0.334	0.460	0.985	1.45	1.52
5							0.385	0.333	0.628	0.886	1.25	1.38
6							0.667	0.315	0.723	0.849	1.19	1.25
7							0.688	0.297	0.763	0.893	1.20	1.18
8							0.627	0.288	0.798	1.02	1.17	1.12
9							0.581	0.399	0.768	0.953	1.04	0.933
10							0.496	0.446	0.674	0.822	0.915	0.872
11							0.422	0.382	0.575	0.769	0.833	0.820
12							0.368	0.368	0.528	0.745	0.795	0.780
13							0.339	0.367	0.462	0.696	0.747	0.760
14							0.315	0.353	0.428	0.657	0.724	0.742
15							0.293	0.354	0.376	0.636	0.709	0.713
16							0.277	0.364	0.356	0.678	0.701	0.688
17							0.269	0.359	0.379	0.722	0.722	0.660
18						0.348	0.262	0.333	0.422	0.770	0.756	0.640
19						0.326	0.239	0.339	0.488	0.861	0.755	0.620
20						0.313	0.246	0.329	0.518	1.10	1.22	0.600
21						0.315	0.284	0.312	0.518	1.15	2.75	0.593
22						1.55	0.264	0.300	1.33	1.40	2.55	0.610
23						2.89	0.234	0.290	1.42	2.55	2.08	1.32
24						2.21	0.229	0.284	1.13	2.92	1.88	2.01
25						1.67	0.227	0.271	0.953	2.63	1.66	1.82
26						1.30	0.228	0.248	0.848	2.47	1.45	1.51
27						0.968	0.229	0.242	0.766	3.76	1.45	1.37
28						0.694	0.320	0.245	0.684	4.90	1.46	1.21
29						0.546	0.507	0.249	0.595	3.82	1.36	1.15
30						0.460	0.555	0.265	0.502	2.98	1.19	1.09
31							0.435	0.261		2.58		1.06

OTTER CREEK AT MILD MAY

STATION NO. 02FC108

Location: At the Otter Creek Conservation Area in the Village of Mildmay.

Gauge: None

Drainage Area: 38.3 square kilometres

Period of Record: June 1975 to December 1981

1981							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 21	.365	Jul 2	.443		
		Jun 1	.386	Jul 9	.259		
		Jun 11	.348	Jul 14	.230		
		Jun 18	.289	Aug 6	.260		
		Jun 26	.285	Aug 19	.262		
				Aug 25	.221		

PRINGLE CREEK AT WHITBY

STATION NO. 02HD108

Location: At the old steel bridge below Victoria Street East, in the Town of Whitby.

Gauge: Staff

Drainage Area: 21.5 square kilometres

Period of Record: July 1966 to December 1981

Remarks: Records good

 1981

Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 14	.357	Jul 9	.272	Oct 1	.362
		Jun 11	.231	Aug 12	.255	Oct 22	.869
		Jun 24	.217	Sep 1	.224	Nov 20	1.19

PROCTORS CREEK BELOW BRIGHTON
(BUTLER CREEK)

STATION NO. 02HD100

Location: At the wooden bridge on Harbour Street about 1.6 kilometres south of the Village of Brighton.

Gauge: Staff

Drainage Area: 30.3 square kilometres

Period of Record: June 1966 to December 1975
May 1977 to December 1981

Remarks: Records fair
Data prior to 1981 appear under the title Butler Creek below Brighton.

1981

Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 15	.278	Jul 10	.134	Oct 2	.189
		Jun 12	.134	Aug 11	.203	Oct 23	.606
		Jun 24	.155	Sep 2	.623	Nov 19	.328

REYNOLDS CREEK NEAR PUTNAM

STATION NO. 02GD109

Location: In the Reynolds Creek Conservation Area near Putnam,
about 300 metres upstream from Highway 401.

Gauge: None

Drainage Area: 151 square kilometres

Period of Record: June 1979 to December 1981

1981

Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 22	.450	Jul 7	.309		
		Jun 5	.470	Jul 13	.172		
		Jun 9	.784	Jul 30	.278		
		Jun 16	.345	Aug 4	.170		
		Jun 29	.397	Aug 20	.285		
				Aug 26	.157		

SALEM CREEK NEAR COLBORNE

STATION NO. 02HD101

Location: About 60 metres upstream from the bridge on Blyth Road, approximately 2.4 kilometres southeast of the Village of Colborne

Gauge: Staff

Drainage Area: 9.1 square kilometres

Period of Record: November 1965 to December 1981

Remarks: Records good

 1981

Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 15	.194	Jul 10	.131	Oct 2	.144
		Jun 12	.163	Aug 11	.172	Oct 23	.326
		Jun 24	.149	Sep 2	.274	Nov 19	.189

URFE CREEK NORTH OF PICKERING

STATION NO. 02HC116

Location: At the first bridge east of Brock Road on Durham Regional Road No. 4, about 4.0 kilometres north of the Town of Pickering

Gauge: On-stream recorder

Drainage Area: 10.6 square kilometres

Period of Record: January 1977 to December 1981

Remarks: Temporary on-stream recorder installed February 25 to December 15, 1981

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1981												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1			0.168	0.104	0.036	0.023	0.017	0.029	0.046	0.036	0.161	0.172
2			0.134	0.089	0.032	0.018	0.018	0.037	0.053	0.049	0.153	0.210
3			0.096	0.072	0.029	0.027	0.022	0.042	0.055	0.040	0.144	0.196
4			0.092	0.069	0.031	0.038	0.022	0.210	0.373	0.035	0.138	0.175
5			0.094	0.067	0.030	0.026	0.026	0.397	0.407	0.034	0.135	0.162
6			0.093	0.056	0.032	0.018	0.026	0.059	0.154	0.097	0.159	0.149
7			0.087	0.047	0.026	0.012	0.017	0.030	0.118	0.124	0.180	0.142
8			0.094	0.045	0.024	0.013	0.014	0.027	0.136	0.103	0.152	0.148
9			0.095	0.049	0.023	0.016	0.011	0.042	0.085	0.074	0.141	0.131
10			0.088	0.042	0.038	0.021	0.007	0.029	0.055	0.089	0.130	0.128
11			0.079	0.043	0.190	0.024	0.002	0.038	0.044		0.134	0.128
12			0.073	0.040	0.174	0.017	0.005	0.040	0.038		0.128	0.128
13			0.072	0.037	0.080	0.022	0.005	0.027	0.033		0.123	0.128
14			0.065	0.136	0.060	0.020	0	0.023	0.029		0.123	0.129
15			0.062	0.092	0.064	0.019	0	0.259	0.028		0.130	0.133
16			0.058	0.063	0.052	0.056	0	0.271	0.026		0.205	
17			0.053	0.109	0.037	0.089	0	0.068	0.031		0.347	
18			0.070	0.096	0.029	0.032	0.004	0.038	0.035		0.251	
19			0.069	0.065	0.025	0.024	0.013	0.032	0.030		0.205	
20			0.067	0.056	0.021	0.021	0.034	0.030	0.029		0.383	
21			0.061	0.045	0.020	0.023	0.018	0.028	0.029		0.503	
22			0.051	0.044	0.019	0.091	0.007	0.026	0.062		0.297	
23			0.054	0.057	0.018	0.053	0.001	0.025	0.042		0.225	
24			0.055	0.083	0.019	0.024	0.001	0.029	0.033		0.193	
25		0.253	0.057	0.066	0.023	0.018	0.001	0.028	0.030		0.168	
26		0.184	0.058	0.052	0.026	0.011	0.001	0.033	0.034		0.161	
27		0.146	0.066	0.044	0.029	0.008	0	0.023	0.042		0.331	
28		0.174	0.059	0.041	0.076	0.003	0.086	0.037	0.033		0.258	
29			0.064	0.054	0.051	0.003	0.082	0.041	0.029	0.265	0.202	
30			0.143	0.045	0.041	0.006	0.021	0.041	0.027	0.196	0.177	
31			0.134		0.035		0.024	0.050		0.173		



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